

IN THE CLAIMS

1. (Previously presented) A computerized method of matching at least one multi-attribute bid from one or more buyers and at least one multi-attribute bid from one or more sellers, comprising:

selecting a pair of bids between each buyer and each seller from a plurality of compatible bid pair combinations, the selected pair of bids having a highest surplus between each buyer bid and seller bid, each buyer and seller bid being based on at least one variance to a nominal attribute value of at least one attribute and a corresponding variance relative to the nominal bid value, wherein each buyer and seller bid is a price, the price being expressed in terms of a uniform measurement unit;

generating a weighted bipartite graph comprising buyer nodes and seller nodes and an edge between each buyer node and each seller node, each edge having the highest surplus of the pair of bids between the buyer and seller as a weight; and

determining maximal weighted matching bids from the highest surplus pairs of bids using the weighted bipartite graph.

2. (Previously presented) The computerized method of claim 1, wherein each buyer is associated with at most one maximal weighted matching bid and each seller is associated with at most one maximal weighted matching bid.

3. (Previously presented) The computerized method of claim 1, wherein said selecting the highest surplus pair of bids between each buyer and each seller includes determining a value associated with each bid of a buyer and each bid of a seller.

4. (Previously presented) The computerized method of claim 3, wherein said highest surplus of a pair of bids between each buyer and each seller is a highest difference between the value of each bid of the buyer and the value of each bid of the seller.

5. (Previously presented) The computerized method of claim 1, further comprising collecting at least one multi-attribute bid from one or more buyers and at least one multi-attribute bid from one or more sellers, each bid having a plurality of attributes specified

by a buyer or seller.

6. (Previously presented) The computerized method of claim 5, wherein each bid has at least one predetermined attribute.

7. (Previously presented) The computerized method of claim 5, wherein said plurality of attributes are specified relative to a uniform measurement unit.

8. (Previously presented) The computerized method of claim 7, wherein said uniform measurement unit is a monetary unit.

9. Cancelled.

10. (Previously presented) The computerized method of claim 1, wherein said selecting the highest surplus pair of bids between each buyer and each seller includes determining a difference between the price of each buyer bid and the price of each seller bid.

11. (Previously presented) The computerized method of claim 1, wherein each bid has a plurality of attributes, at least a portion of the attributes being specified by a buyer or seller and wherein said determining the highest value pair of bids between each buyer and each seller further includes:

- generating bids for each buyer from the plurality of attributes;
- generating bids for each seller from the plurality of attributes;
- comparing attributes of each bid of each buyer with attributes of each bid of each seller.

12. (Previously presented) The computerized method of claim 11, wherein said determining the highest value pair of bids between each buyer and each seller further includes generating a list of matching bids between each buyer and each seller, each matching bid having compatible attributes.

13. (Previously presented) The computerized method of claim 12, wherein said highest surplus pair of bids between each buyer and each seller is selected from said list of matching bids.

14. (Previously presented) The computerized method of claim 11, wherein said compatible attributes includes a buyer price lower than or equal to a seller price.

15. (Currently amended) The computerized method of claim ~~[[11]]~~ 12, wherein said generating the list includes discarding pairs of bids between each buyer and each seller where a buyer price is lower than a seller price.

16-30. Cancelled